



# CONSTRUCTION EQUIPMENT

## VOLVO L220G 12011 - FRONT AXLE



**Sample No:** VCP344538  
**Oil Type:** VOLVO WB 102  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP344538</b>	VCP162124	VCP148621	VCP168056
Sample Date	<b>30 Nov 2021</b>	30 Sep 2015	21 Jul 2015	02 May 2015
Machine Hours	<b>18873</b>	9146	8604	8009
Oil Hours	<b>0</b>	0	500	2000
Oil Changed	<b>Not Changd</b>	N/A	Not Changd	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**CALLANAN**  
 RT 32 677 FLATBUSH RD  
 EAST KINGSTON, NY  
 US 12401  
 Contact:



### OIL CONDITION

Visc @ 40°C	cSt	<b>40.9</b>	40.19	40.00	40.71
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T:  
F:



### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>9</b>	8	12	17
Sodium	ppm	<b>1</b>	1	<1	<1
Potassium	ppm	<b>5</b>	0	1	<1

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.



### WEAR METALS

Iron	ppm	<b>72</b>	6	13	100
Copper	ppm	<b>12</b>	2	<1	8
Lead	ppm	<b>1</b>	0	0	<1
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>&lt;1</b>	<1	<1	<1
Chromium	ppm	<b>1</b>	<1	<1	2
Molybdenum	ppm	<b>0</b>	0	0	<1
Nickel	ppm	<b>0</b>	0	<1	<1
Titanium	ppm	<b>1</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	2
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>2716</b>	3844	4196	4837
Magnesium	ppm	<b>10</b>	6	10	15
Zinc	ppm	<b>1214</b>	1664	1624	1799
Phosphorus	ppm	<b>1121</b>	1260	1375	1647
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>60</b>	97	112	142

**Depot:** CALEAS  
**Unique No:** 9762807  
**Signed:** Jonathan Hester  
**Report Date:** 03 Dec 2021



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## GRAPHS

